

AMENDMENTS TO THE SPECIFICATION

Please enter the following amendments of the specification into the file history of this application.

Replace the paragraph [0012] at page 3 with the following amended paragraph:

According to one aspect of the present invention, there is provided a friction brake assembly to act between a pair of first component and a second component relatively moveable with respect to the first component components and comprising a braked brake member connected to one of said the first component components, a carrier connected to the other of said second component components and a friction pad attached to the carrier for engagement with the brake member. A first actuator including at least one shape memory alloy element is operable upon the carrier to move the friction pad into engagement with the brake member. A second actuator including at least one shape memory alloy element is operable upon the carrier to move the friction pad away from the brake member. A controller control operates selectively on the first and second actuators.

Replace the paragraph [0013] at page 4 with the following amended paragraph:

According to a further aspect of the present invention, there is provided a prosthesis having a pair of limbs pivotally connected on one another by a mechanical joint. An actuator is connected between the limbs to effect relative rotation there between and a friction brake assembly as described above acts to inhibit such relative motion. The friction brake assembly is operative upon the actuator to inhibit further movement in the joint.

Replace the paragraph [0028] at page 6 with the following amended paragraph:

Referring therefore to FIG. 1, a powered prosthesis 10 has, a knee joint assembly 12 connected between a lower limb 14 and a socket 18. The knee joint assembly 12 permits relative rotation between the socket 18 and the lower limb 14 which in turn is connected to a foot 15 through a cantilevered support beam 20. Rotation of the knee joint 12 is controlled by an actuator 16 pivotally connected, as indicated at 22, to the lower limb assembly 14 and at its opposite end to bifurcated arms 24 forming part of the knee joint assembly 12. The actuator 16 is a screw type actuator with an armature rotatable within the outer casing and engaged through a screw thread with a linearly displaceable output shaft 26. Rotation of the armature induces longitudinal displacement of the shaft 26 causing the actuator 16 to lengthen or shorten and cause a corresponding rotation in the

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knee joint assembly 12. Further details of the actuator and knee joint assembly may be found from the Applicants corresponding PCT Application PCT/____ PCT/CA2003/00092 and accordingly further description is not required at this time. In order to inhibit rotation of the knee joint assembly 12, a brake assembly 28 is incorporated on the actuator 16 and is operable to inhibit changes in the length of the actuator 16 when engaged. The details of the brake assembly 28 are more readily seen in FIGS. 2, 3 and 4.

Replace the paragraph starting at page 7, line 1, with the following amended paragraph:

threaded connection between the armature and the shaft 26. Rotation of the shaft 26 is inhibited by its connection to the ears 24 54.